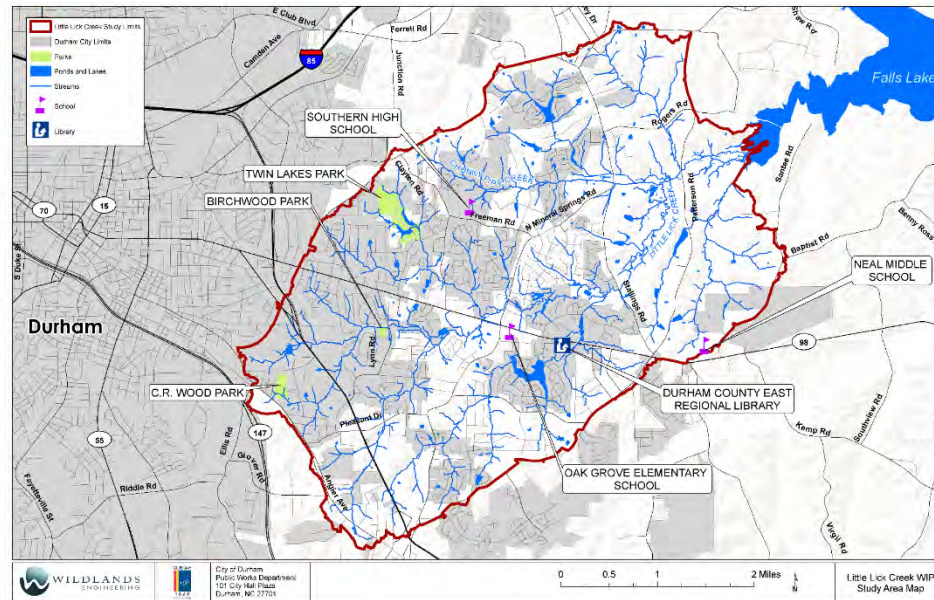




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Little Lick Creek Watershed Improvement Plan



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Tonight's Agenda

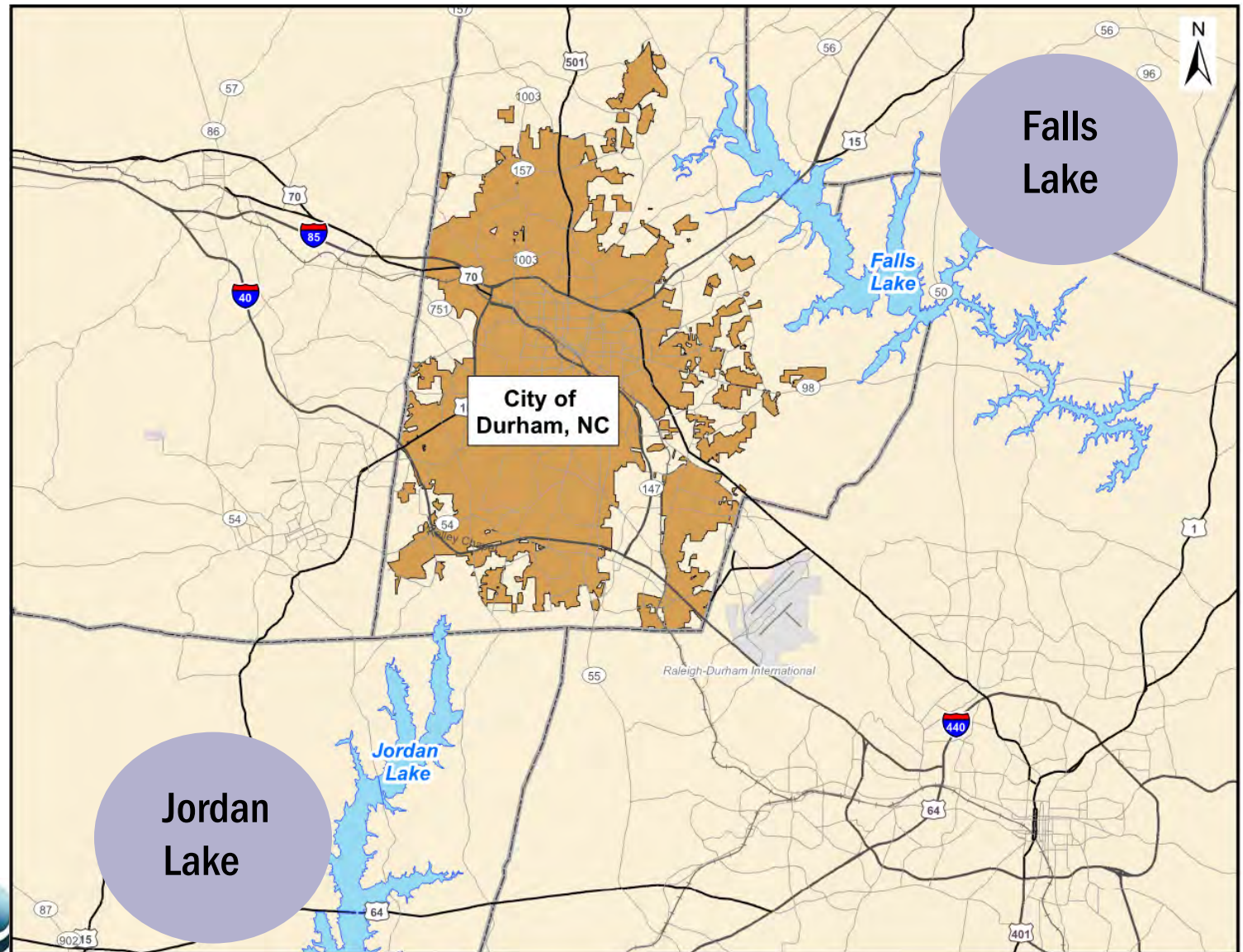
- Introductions of City Staff and Project Team
- Brief Presentation
- Activity Stations + Kids Corner:
 - *Welcome Station and Sign-In*
 - *Watershed Overview and Resident Survey*
 - *Stream Restoration Benefits*
 - *Stormwater Control Measure Benefits*
 - *Enviroscape*
 - *Stream Cleanup Wall*
- Refreshments



Why Watershed Improvement Plans?



Durham's Nutrient Sensitive Waters



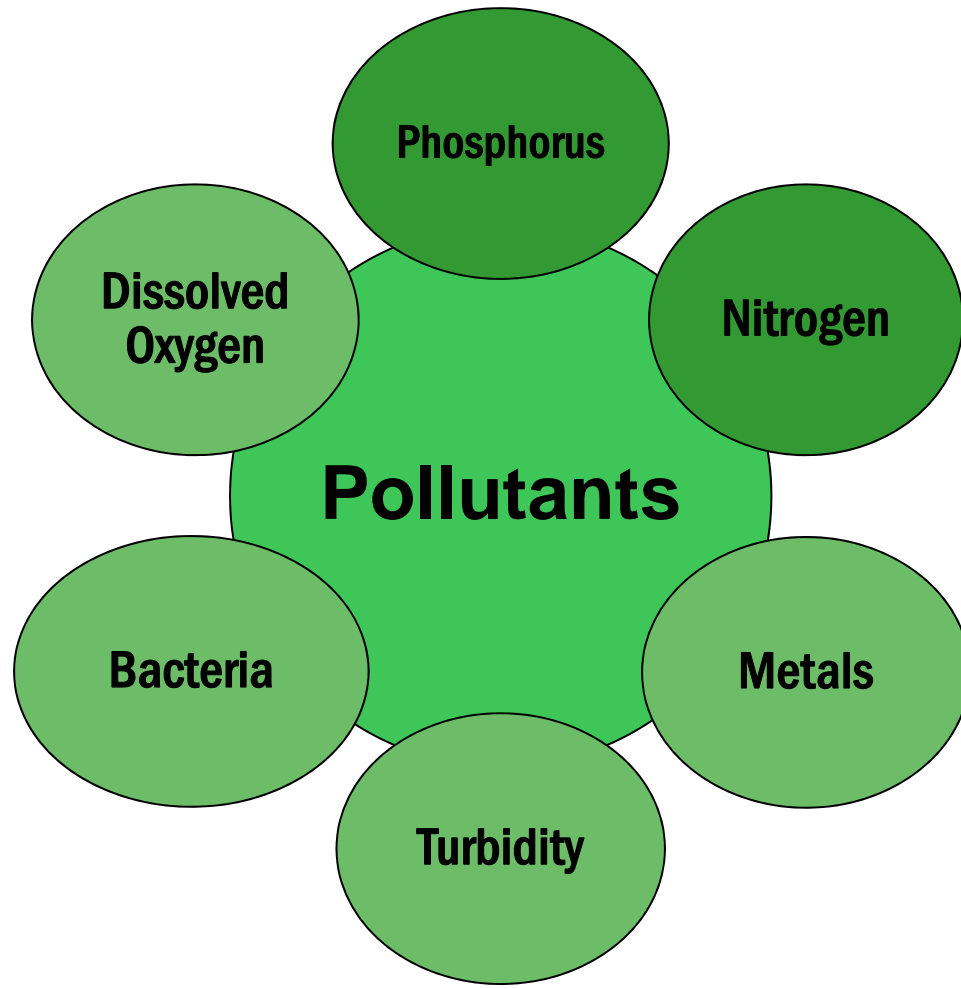
Nutrient Sensitive Waters

Phosphorus

Nitrogen

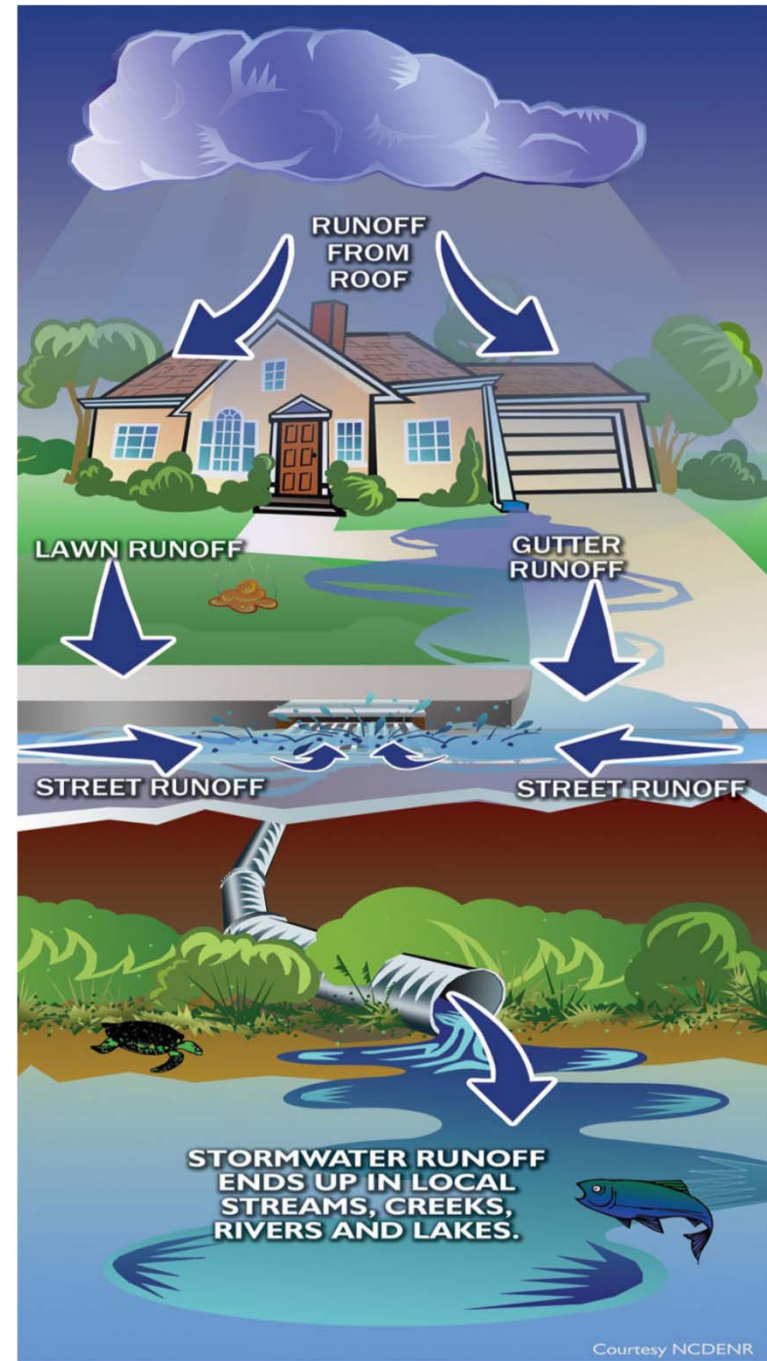
Local Streams that have “Impaired” Water Quality

- *Ellerbe Creek*
- *Third Fork Creek*
- *Northeast Creek*
- *Lick Creek*
- *Little Lick Creek*
- *Eno River*



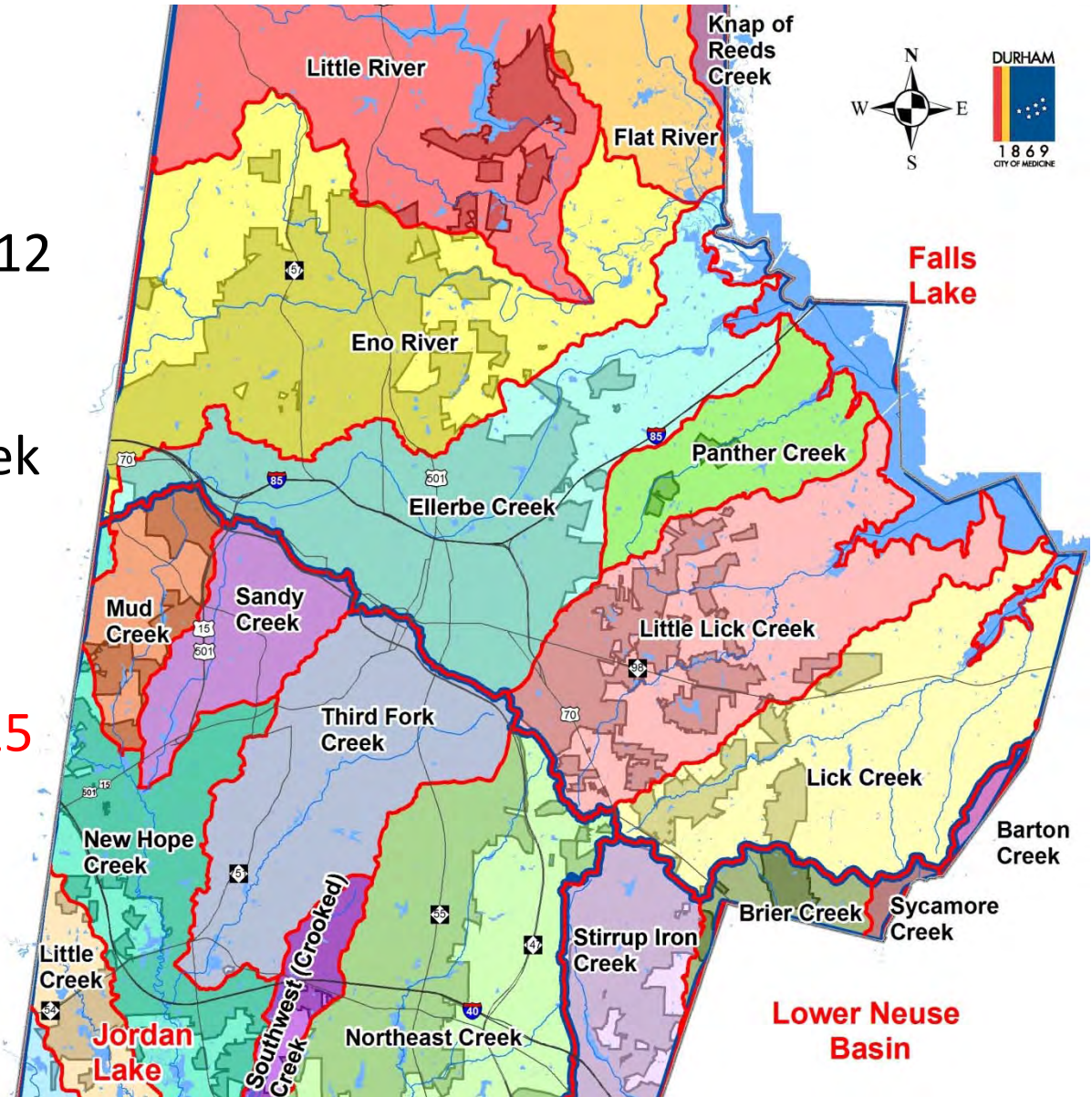
Goals and Objectives

- Focus on water quality and watershed health
- Put into action the most effective water quality improvement projects throughout the City
- Meet federal and state water quality regulations



Citywide Initiation of WIP's

- Ellerbe Creek WIP - 2010
- Third Fork Creek WIP - 2012
- Northeast & Crooked Creek WIP- 2013
- Little Lick Creek WIP - 2015

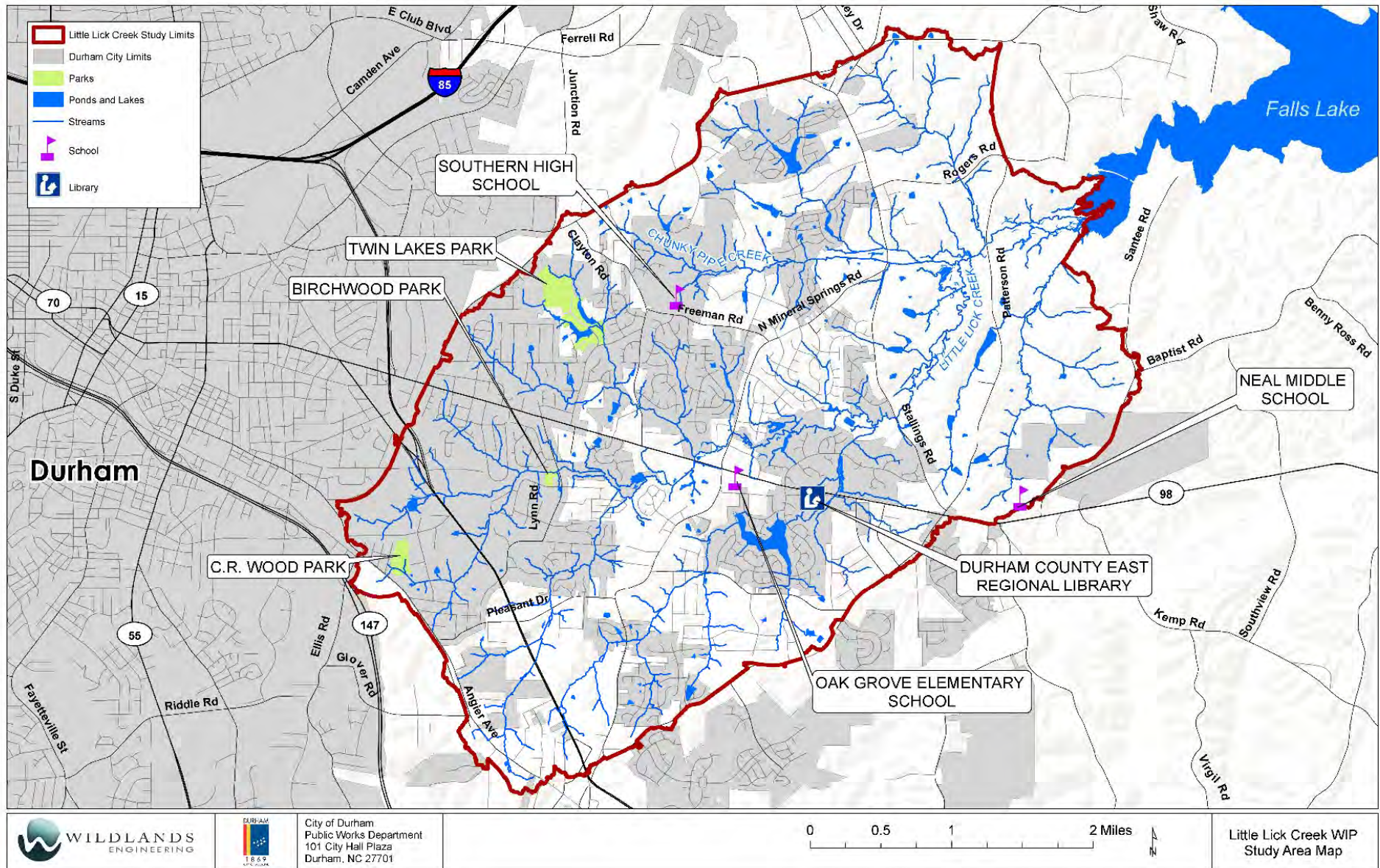




Little Lick Creek Watershed Improvement Plan



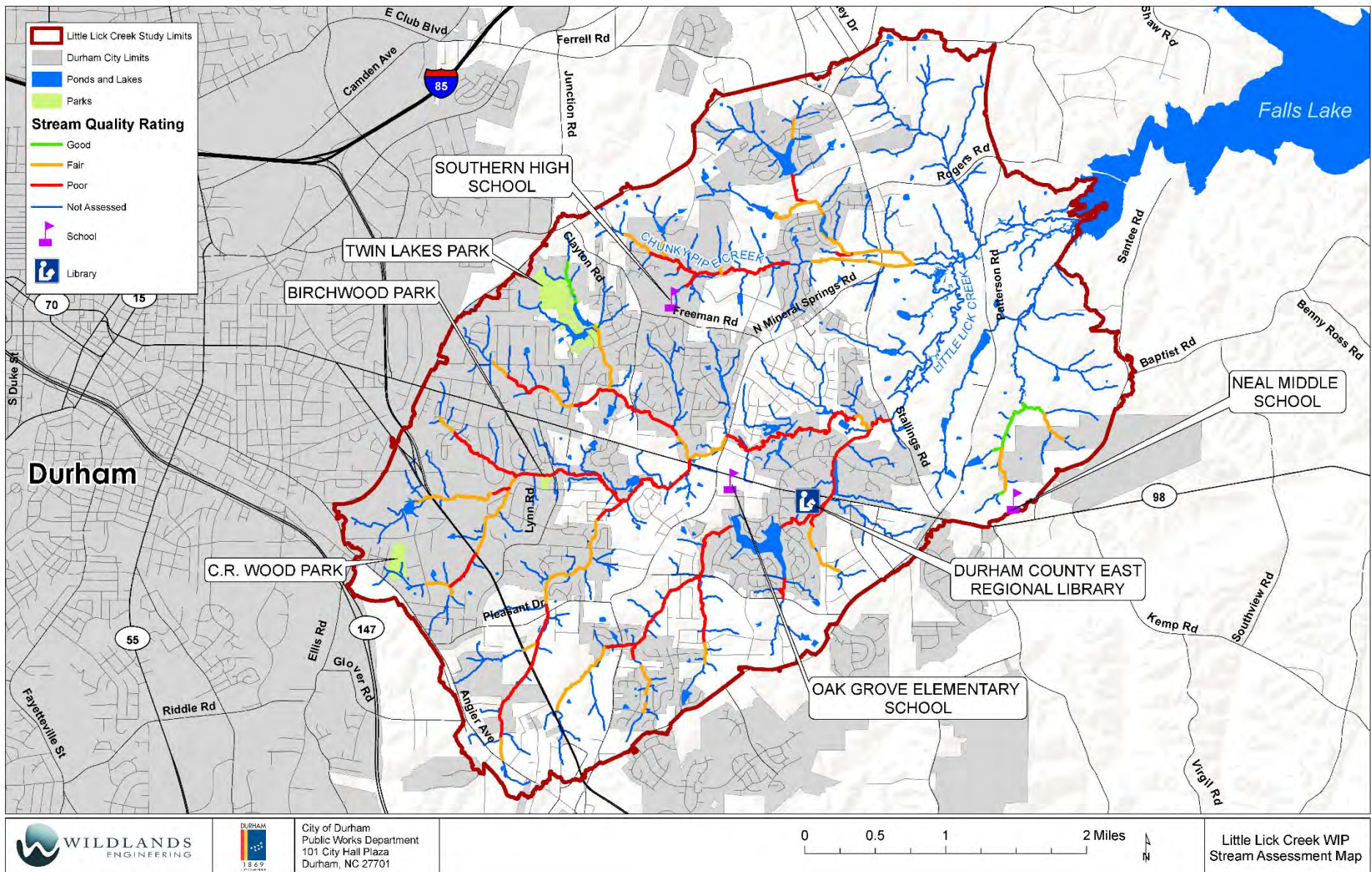
Little Lick Creek Watershed



Field Activities



Opportunities to Stabilize and Restore Streams



Stream Assessment Results

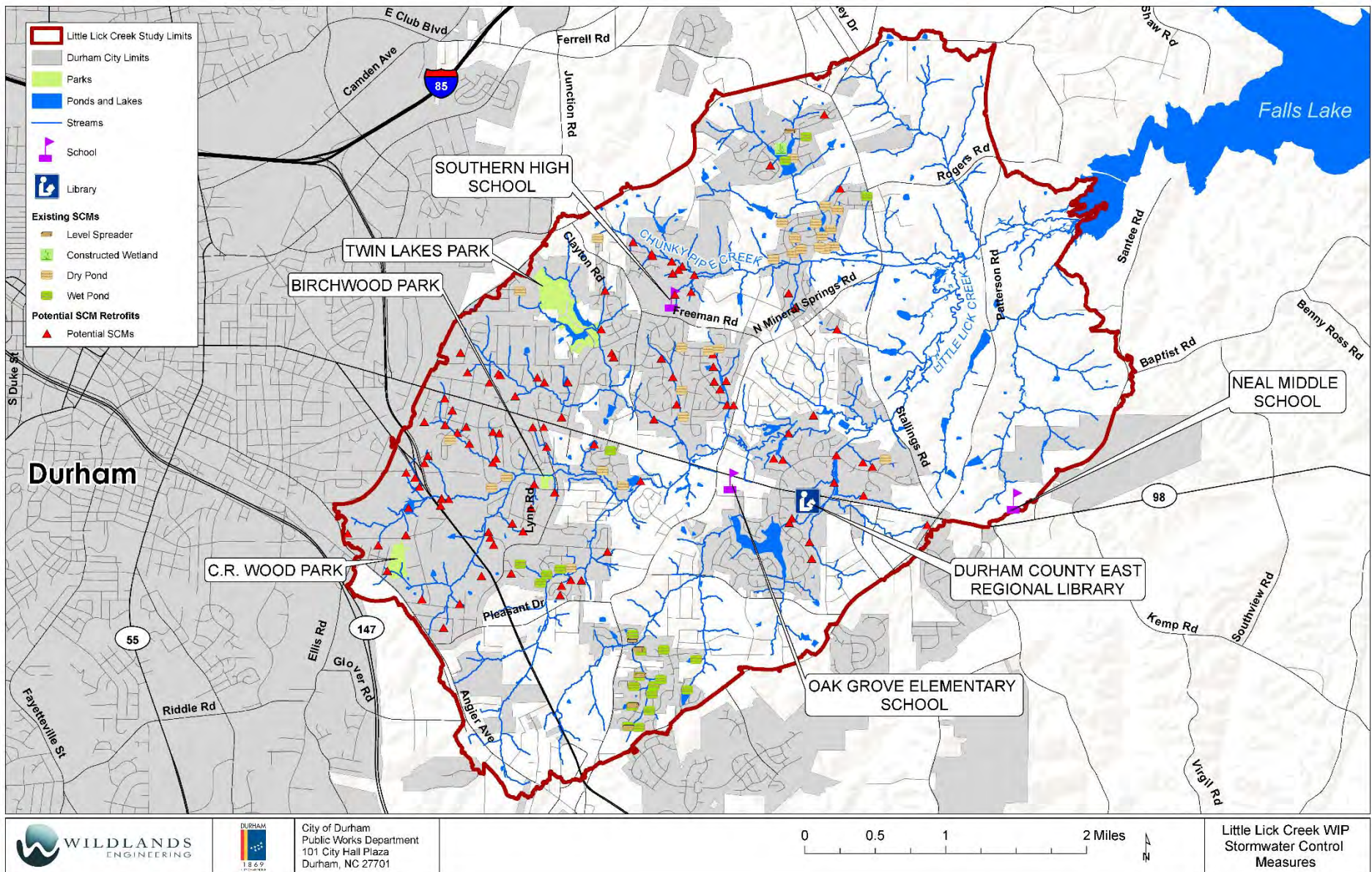
Of the 104 stream reaches that were assessed:



STREAM QUALITY RATINGS



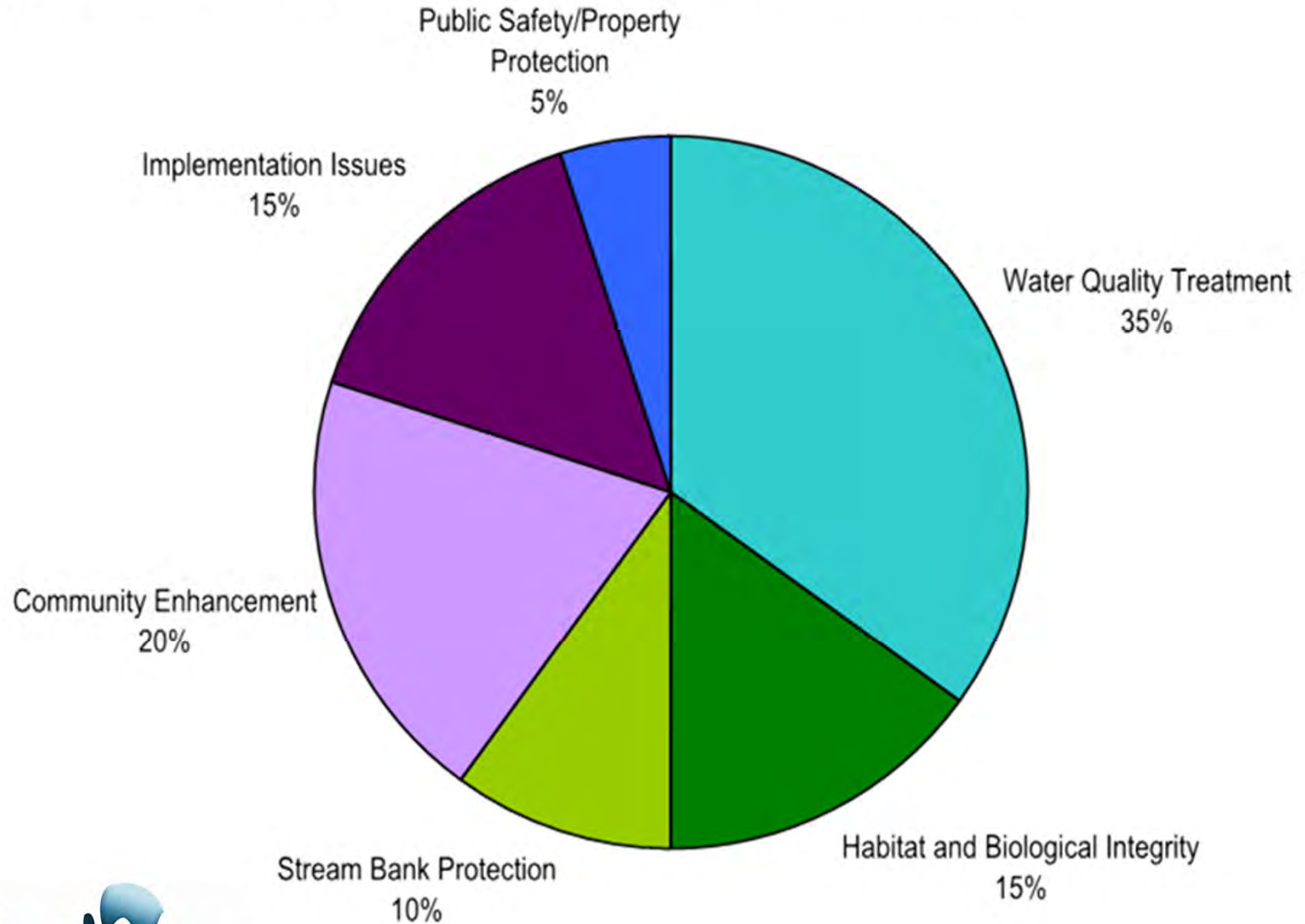
Opportunities for Stormwater Retrofits



SCM Retrofits - Results



Example of Project Evaluation Criteria

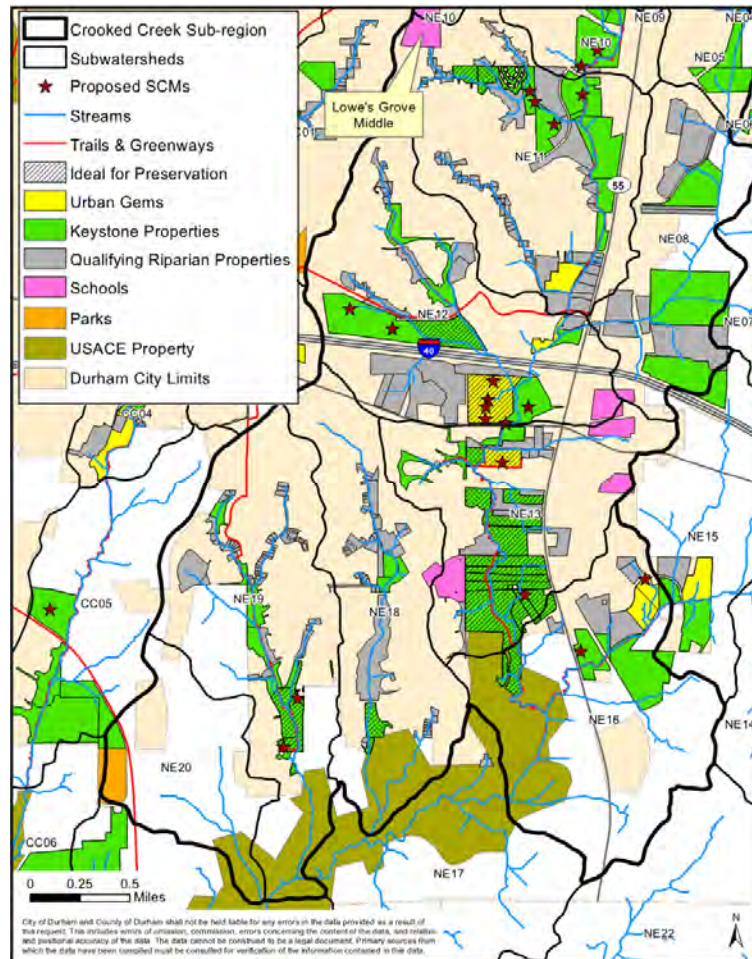


Other Methods to Improve Water Quality

- Improvements to the sewer and septic systems
 - Fix leaky sewer pipes
 - Remove illicit discharges
 - Correct improper sewer connections
 - Improve sand filter/septic systems
- Upgrades to wastewater treatment systems
- Existing stormwater performance standards for new development and redevelopment
- City's Rain Garden Program

Critical Areas and Riparian Buffers

Critical Area Protection Plan



Riparian Area Management Plan



Adopt-a-Stream Program

- Durham's Adopt-a-Stream Program:
 - At least 1 stream clean-up per year for 2 years
 - Observations on how the stream looks and smells
 - Report potential water pollution violations (e.g., illegal dumping) to Durham's hotline at (919) 560-7946
- Currently only one reach in this watershed has been “adopted” – Birchwood Park
- Many more opportunities exist, please let us know if you are interested in joining this program.

What's next?

- Complete evaluation of potential water quality improvement projects – ***Dec. 2014***
- Second Public Information Session – ***Winter 2015***
- Draft Watershed Improvement Plan – ***Winter 2015***
- Final Public Information Session – ***Spring 2015***
- Final Watershed Improvement Plan – ***Spring 2015***



Thank You for Coming!

Please visit the activity stations & share your feedback with us - We want to know what is important to you!

